

Drugs and Medicines Study Worksheet 2—Antacids

1. Describe the digestive process that occurs in the stomach. What is the role of pepsinogen and hydrochloric acid in the stomach

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2. What are some causes of acid indigestion?

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3. What are four different categories of compounds that are used as antacid\ Give an example of each and write a chemical equation to show how it neutralizes exces hydrochloric acid in the stomach.

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4. What are side effects that can result for each of the four categories of antacids that you listed in question 3 above

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5. Explain the role of (a) alginates and (b) antifoaming agents that are often added to antacids

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6. Tums is a common antacid product sold over the counter in grocery stores and pharmacies. Tums contains 500 mg (0.500 g) of Calcium Carbonate as its active ingredient. Gaviscon contains 105 mg Magnesium hydroxide and 160 mg of aluminum hydroxide. Calculate the number of moles of hydrochloric acid that each tablet would neutralize